

CITY OF TEMPE  
PUBLIC WORKS DEPARTMENT  
DIVISION OF ENGINEERING

PRIEST DRIVE & RAY ROAD  
BUS BAY IMPROVEMENTS

PROJECT NO. 6008511

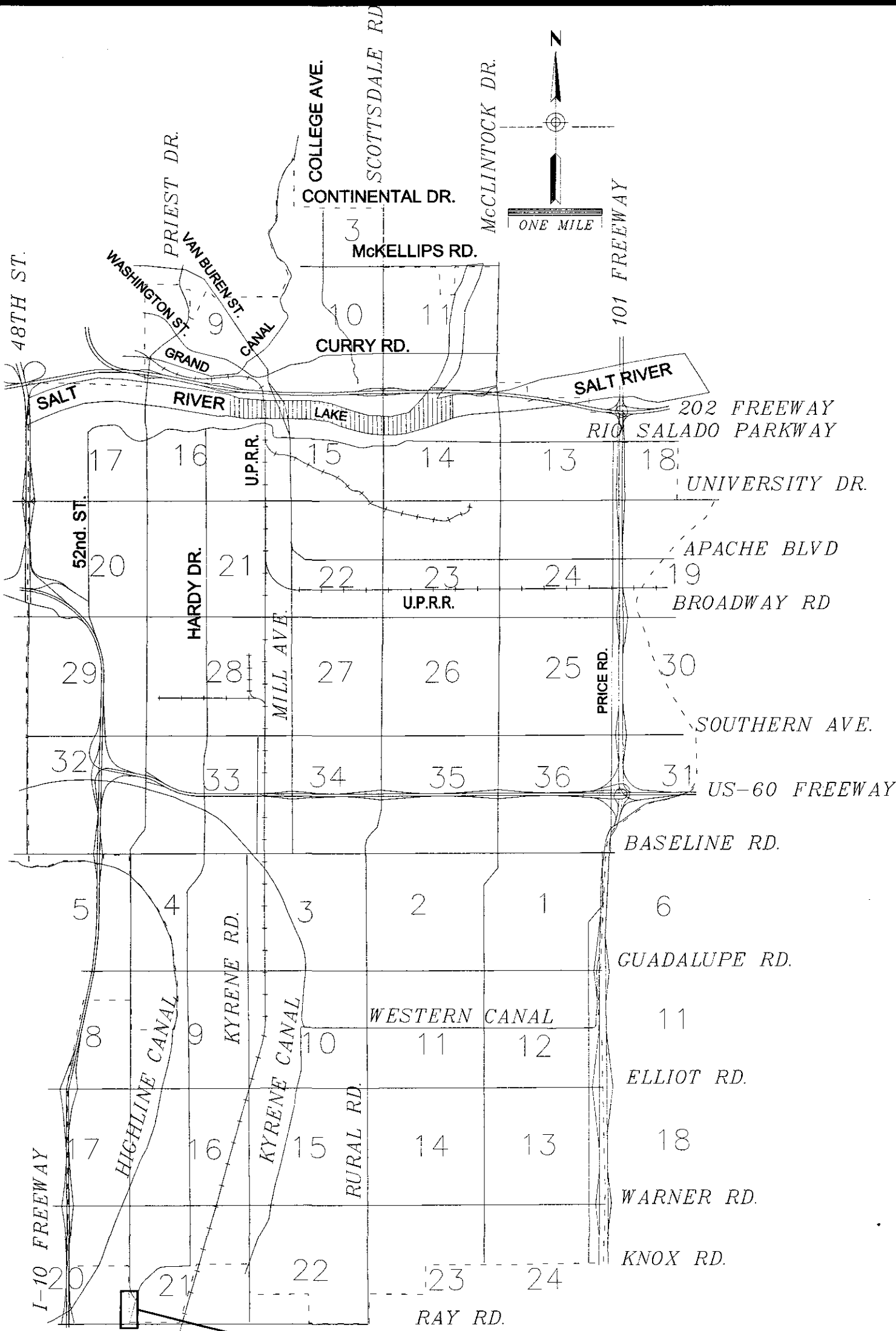
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MAYOR  
MARK MITCHELL

VICE MAYOR  
ROBIN ARREDONDO-SAVAGE

CITY COUNCIL  
LAUREN KUBY  
RANDY KEATING  
KOLBY GRANVILLE  
JOEL NAVARRO  
DAVID SCHAPIRA

CITY MANAGER  
ANDREW CHING

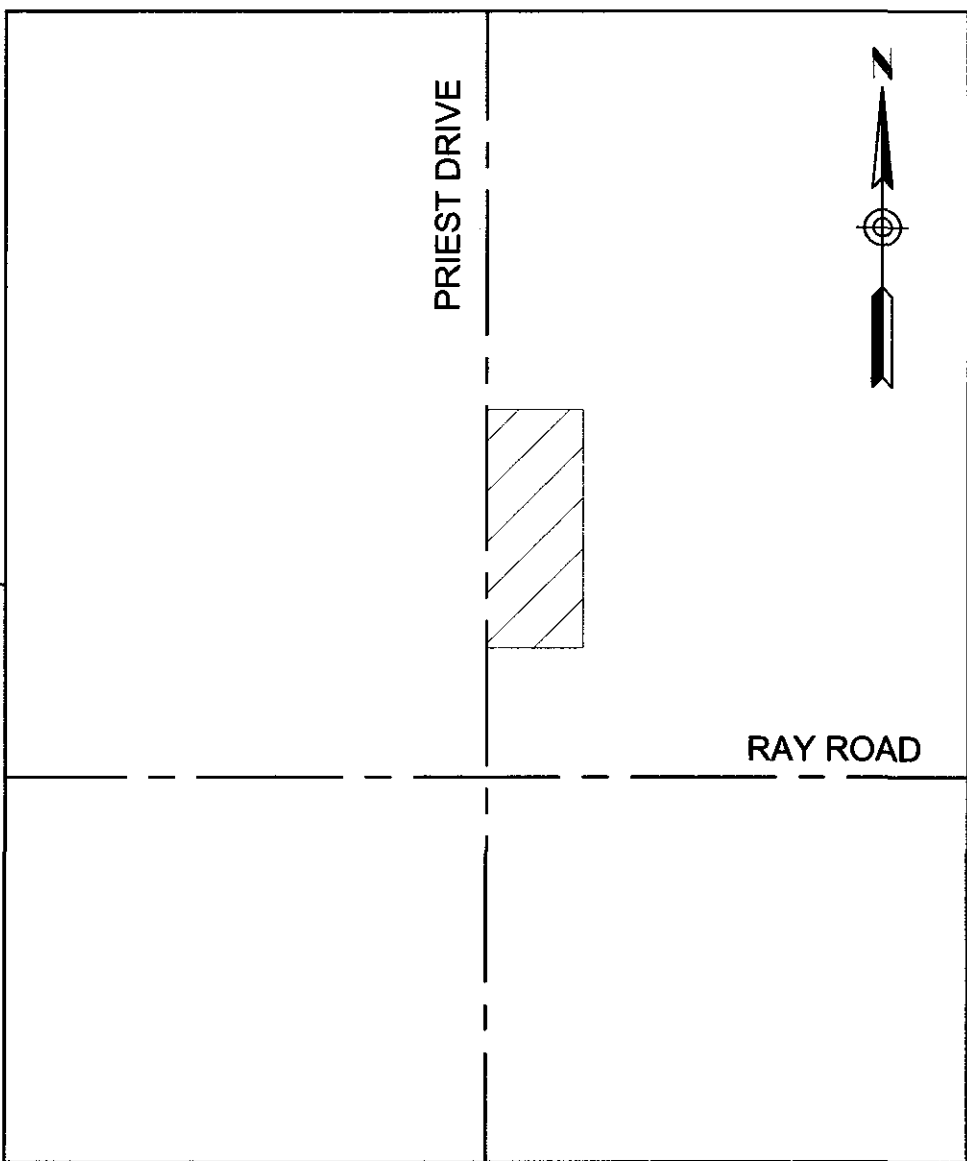
CITY ENGINEER  
MARILYN DEROSA, P.E.

APPROVED

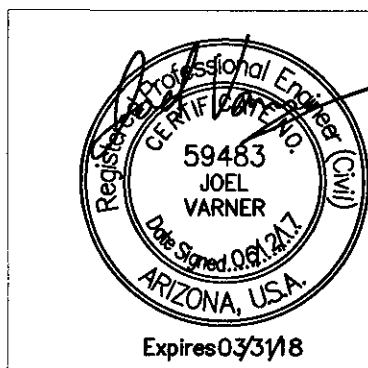
DEPUTY PUBLIC WORKS DIRECTOR  
CITY ENGINEER

13 Jun 17  
DATE

ENGINEER:  
KIMLEY-HORN & ASSOCIATES  
7740 N 16TH ST, SUITE 300  
PHOENIX, AZ 85281  
JOEL VARNER, P.E.  
(602) 906-1188



VICINITY MAP  
(N.T.S.)



AS-BUILT INFORMATION IS INCLUDED IN THESE AREAS ON THIS SET OF DRAWINGS		PERMITS REQUIRED FOR THIS SET OF DRAWINGS	
<input type="checkbox"/> SEWER	<input type="checkbox"/> FIRE LINE	<input type="checkbox"/> DRAINAGE	
<input type="checkbox"/> WATER	<input type="checkbox"/> CITY IRRIG.	<input type="checkbox"/> PAVING	
<input type="checkbox"/> WATER-RECLAIMED	<input type="checkbox"/> BIKE PATH	<input type="checkbox"/> WATER	
<input type="checkbox"/> STORM DRAIN/DRYWELL	<input type="checkbox"/> LANDSCAPE/SPRINKLER	<input type="checkbox"/> SEWER	
<input type="checkbox"/> PAVING	<input type="checkbox"/> STREET LIGHTS	<input type="checkbox"/> STREET LIGHTS	
<input type="checkbox"/> OFFSITE (C.G.S.W.D.W.)	<input type="checkbox"/> BUILDINGS	<input type="checkbox"/> FLOODPLAIN	
<input type="checkbox"/> GRADING/DRAINAGE		<input type="checkbox"/> OTHER	
AS-BUILT PLANS CHECKED FOR FIELD CHANGES		PARCEL #	
INSPECTOR: _____		PROJECT # _____	

SHT. 1 OF 4

PROJECT # 6008511 DS# EN# 8240862 TITLE: PRIEST DRIVE AND RAY ROAD - BUS BAY IMPROVEMENTS

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GENERAL AND SITE PLAN NOTES

- ALL CONSTRUCTION UNDER THE PUBLIC WORKS PERMIT SHALL CONFORM TO THE CITY OF TEMPE SUPPLEMENT TO THE MAG SPECIFICATIONS AND DETAILS, MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS AND DETAILS (MAG SPECIFICATIONS AND DETAILS), AND CITY OF TEMPE TRAFFIC BARRICADE MANUAL.
- A PERMIT ISSUED BY THE ENGINEERING DIVISION SHALL BE REQUIRED FOR ALL WORK IN THE CITY OF TEMPE RIGHTS-OF-WAY. AN INVESTIGATION FEE, IN THE AMOUNT GREATER OF \$250.00 OR DOUBLE THE PERMIT FEE, NOT TO EXCEED \$2,500, WILL BE CHARGED FOR ANY WORK WITH THE CITY OF TEMPE RIGHTS-OF-WAY IN WHICH A PERMIT HAS NOT BEEN ISSUED PRIOR TO COMMENCEMENT OF WORK.
- THE CITY SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION WORK. CALL THE ENGINEERING REQUEST LINE AT (480) 350-8475 AT LEAST ONE BUSINESS DAY BEFORE START OF CONSTRUCTION TO REQUEST INSPECTIONS. CONSTRUCTION WORK CONCEALED WITHOUT INSPECTION BY THE CITY SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- RIGHT-OF-WAY IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL 3 MIL MINIMUM DOUBLE MATTE BLACK LINE MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.
- LOCATION OF ALL WATER VALVES, MANHOLES, AND CLEANOUTS MUST BE REFERENCED AT ALL TIMES DURING CONSTRUCTION AND MADE AVAILABLE TO THE WATER AND WASTEWATER DIVISION.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS AND ALL SURVEY MONUMENTS ARE INSTALLED ACCORDING TO THE PLANS.
- THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION, UTILITY RELOCATION, CONSTRUCTION STAKING, OR "AS-BUILT" PLANS.
- ALL EXISTING STREET MONUMENTS MUST BE PRESERVED. PRIOR TO CONSTRUCTION, MONUMENTS WILL BE REFERENCED HORIZONTALLY AND VERTICALLY. AFTER CONSTRUCTION, MONUMENTS SHALL BE RESET AND FIELD NOTES, INCLUDING NEW ELEVATION, SHALL BE FILED WITH THE CITY.
- ALL ON-SITE PRIVATE UTILITIES AND DETAILS SHOWN IN THESE PLANS ARE FOR REFERENCE ONLY AND ARE NOT APPROVED ON THESE DRAWNGS. SEE PLANS THAT ARE APPROVED BY BUILDING SAFETY FOR ON-SITE PRIVATE UTILITIES.
- THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN PLANS FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE. IT IS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER SEALING AND SIGNING THESE PLANS TO BE CERTAIN THAT THEY ARE IN FULL COMPLIANCE WITH CITY OF TEMPE STANDARDS, DETAILS, CRITERION, LAWS, AND ORDINANCES.
- THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
- THE CITY APPROVAL IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY, ON-SITE GRADING, DRAINAGE, WATER AND SEWER. THIS PLAN CHECK APPROVAL IS VALID FOR A PERIOD OF ONE YEAR FROM APPLICATION DATE. CONSTRUCTION PERMITS SHALL BE OBTAINED DURING THIS PERIOD OR THE PLANS SHALL BE RESUBMITTED FOR REVIEW AND APPROVAL. ONE 6 MONTH EXTENSION MAY BE GRANTED UPON REQUEST IF THE REQUEST IS MADE PRIOR TO THE EXPIRATION OF THE ONE YEAR PERIOD AT A COST OF 25% OF THE TOTAL PLAN CHECK FEE. PERMITS MUST THEN BE ISSUED WITH 6 MONTHS AND THEY WILL BE VALID FOR ONE YEAR FROM ISSUE DATE, OTHERWISE, THE PROJECT EXPIRES AND PERMITS ARE VOIDED.
- AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- CONSTRUCTION ITEMS SHALL NOT BE ACCEPTED UNTIL 3 MIL MINIMUM DOUBLE MATTE BLACK LINE MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.
- THE CONTRACTOR SHALL CONTACT ARIZONA BLUE STAKE AT 602-263-1100 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF TEMPE TRAFFIC BARRICADE MANUAL. WHEN REQUIRED BY THE CITY, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR MAY OBTAIN A FIRE HYDRANT METER FOR CONSTRUCTION WATER FROM CUSTOMER SERVICES. THIS METER SHOULD BE ORDERED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT IS A VIOLATION OF THE MUNICIPAL CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT.
- ALL BROKEN OR DISPLACED EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE CITY OF TEMPE ENGINEERING DIVISION INSPECTOR.
- ALL CITY FACILITIES, ALLEYS AND ROADWAY SURFACES DAMAGED BY DEVELOPER/CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED/RESTORED TO THE SATISFACTION OF THE CITY OF TEMPE ENGINEERING DIVISION INSPECTOR PER THE RESPECTIVE CITY AND/OR MAG STANDARD DETAIL.

PAVING PLAN NOTES

- NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM ARE COMPLETED.
- THE MAXIMUM STAKE INTERVAL FOR GRADES OF 0.2% OR LESS SHALL BE 25 FOR CONCRETE WORK AND 50 FOR ASPHALT ROADWAY SECTION, EXCEPT ON HORIZONTAL OR VERTICAL CURVES WHERE A MAXIMUM STAKE INTERVAL OF 20 FOR CONCRETE WORK SHALL BE REQUIRED. ALL CURB RETURNS SHALL BE STAKED AT THE P.C., P.T. AND THE MIDPOINT OF THE RETURN. NO GRADE STAKE INTERVAL SHALL EXCEED 50.
- GUTTERS WILL BE WATER TESTED IN THE PRESENCE OF THE CITY ENGINEER, OR DESIGNEE, TO INSURE PROPER DRAINAGE, PRIOR TO FINAL APPROVAL BY THE ENGINEERING DIVISION.
- UNDERGROUND STREET LIGHT CIRCUITS SHALL BE INSTALLED AS PART OF THE OFFSITE IMPROVEMENTS. NEW FOUNDATIONS FOR STREET LIGHT POLES SHALL BE POURED FAR ENOUGH IN ADVANCE TO ALLOW SUFFICIENT TIME FOR CONCRETE CURING AND FOR SCHEDULING THE RELOCATION OF THE EXISTING STREET LIGHT POLES.
- PAVING IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL 3 MIL MINIMUM DOUBLE MATTE BLACK LINE MYLAR REPRODUCIBLE AS-BUILT PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.

SEWER, WATER AND UTILITY PLAN NOTES



- THE CONTRACTOR SHALL UNCOVER ALL EXISTING LINES BEING TIED INTO TO VERIFY THEIR LOCATION, SIZE, MATERIAL TYPE, ETC. PRIOR TO CONSTRUCTION OF NEW LINES. THE CONTRACTOR WILL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PIPELINES, TELEPHONE AND ELECTRIC CONDUITS, AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGE TO SAME. CALL BLUE STAKE AT 602-263-1100.
- SUMMITS IN WATER LINES SHALL BE LOCATED AT FIRE HYDRANTS.
- BACKFILLING SHALL NOT BE STARTED UNTIL LINES ARE APPROVED BY THE ENGINEERING DIVISION.
- IF A BACKFLOW PREVENTION ASSEMBLY IS REQUIRED TO BE INSTALLED, THE CONTRACTOR WILL CALL THE DEVELOPMENT SERVICES DEPARTMENT AT 480-350-8341 FOR AN INSPECTION BEFORE BACKFILLING THE ASSEMBLY.
- ALL PUBLIC WATER LINES SHALL BE CLASS 52 DIP, PROTECTED WITH HIGH DENSITY POLYETHYLENE CORROSION PROTECTION PER MAG SPECIFICATION 610.
- ALL NEW WATER AND SEWER CONNECTIONS TO EXISTING LINES SHALL BE DONE ONLY BY OPEN-CUT ON MAJOR ARTERIAL STREETS, MAJOR INTERSECTIONS OR THE PRESENCE OF A MAJOR WATER OR SEWER LINE. BORED INSTALLATIONS MUST BE CLEARLY IDENTIFIED AND SPECIFICALLY APPROVED BY THE CITY ENGINEER, OR DESIGNEE.
- IN ACCORDANCE WITH AAC R18-4-119, ALL MATERIALS ADDED AFTER JANUARY 1, 1993, WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.
- ONLY THE CITY OF TEMPE WATER MANAGEMENT DIVISION PERSONNEL SHALL OPERATE ANY EXISTING VALVES OR ANY VALVE CONNECTING NEW WORK TO EXISTING CITY WATER SYSTEM.
- SEWER, WATER AND UTILITY IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL 3 MIL MINIMUM DOUBLE MATTE BLACK LINE MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.
- WATER, STORM DRAIN & SANITARY SEWER SEPARATION/PROTECTION SHALL BE PER MAG STANDARD DETAIL 404-1, 404-2, AND 404-3 WITH CITY APPROVAL. THE CITY CONSIDERS STORM DRAINS TO BE "SEWER" WHEN CROSSING WATER LINES. THE CITY CONSIDERS STORM DRAINS TO BE "POTABLE WATER" WHEN CROSSING SANITARY SEWER LINES.
- THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PREVENT FOREIGN MATERIAL FROM ENTERING THE PIPE WHILE IT IS BEING STORED.
- DURING INSTALLATION AND AT ALL TIMES WHEN PIPE LAYING IS NOT IN PROGRESS, THE OPEN ENDS OF THE PIPE IN THE TRENCH SHALL BE CLOSED BY A WATER-TIGHT PLUG OR OTHER MEANS APPROVED BY THE CITY OF TEMPE ENGINEERING INSPECTOR. IF IN THE OPINION OF THE CITY OF TEMPE ENGINEERING INSPECTOR THE PIPE CONTAINS DIRT THAT WILL NOT BE REMOVED DURING THE FLUSHING OPERATION, THE INTERIOR OF THE PIPE SHALL BE CLEANED AND SWABBED, AS NECESSARY, WITH A .005 TO .010 PERCENT CHLORINE SOLUTION.
- AFTER PRESSURE TESTING AND BEFORE PLACING IN SERVICE, ALL WATER LINES SHALL BE DISINFECTED AND TESTED FOR WATER QUALITY IN ACCORDANCE WITH MAG STANDARD SPECIFICATIONS SECTION 611. IF THE WATERLINE FAILS THE CHLORINE RESIDUAL TEST OR FAILS TO MEET THE WATER QUALITY TEST MORE THAN THREE (3) TIMES, THE CITY OF TEMPE ENGINEERING INSPECTOR RESERVES THE RIGHT TO REQUIRE THE INSTALLED WATER LINE TO BE CLEANED BY PIGGING THE LINE, IN ACCORDANCE WITH STANDARD PROCEDURES, AT NO COST TO THE CITY.

STREET LIGHTING PLAN NOTES

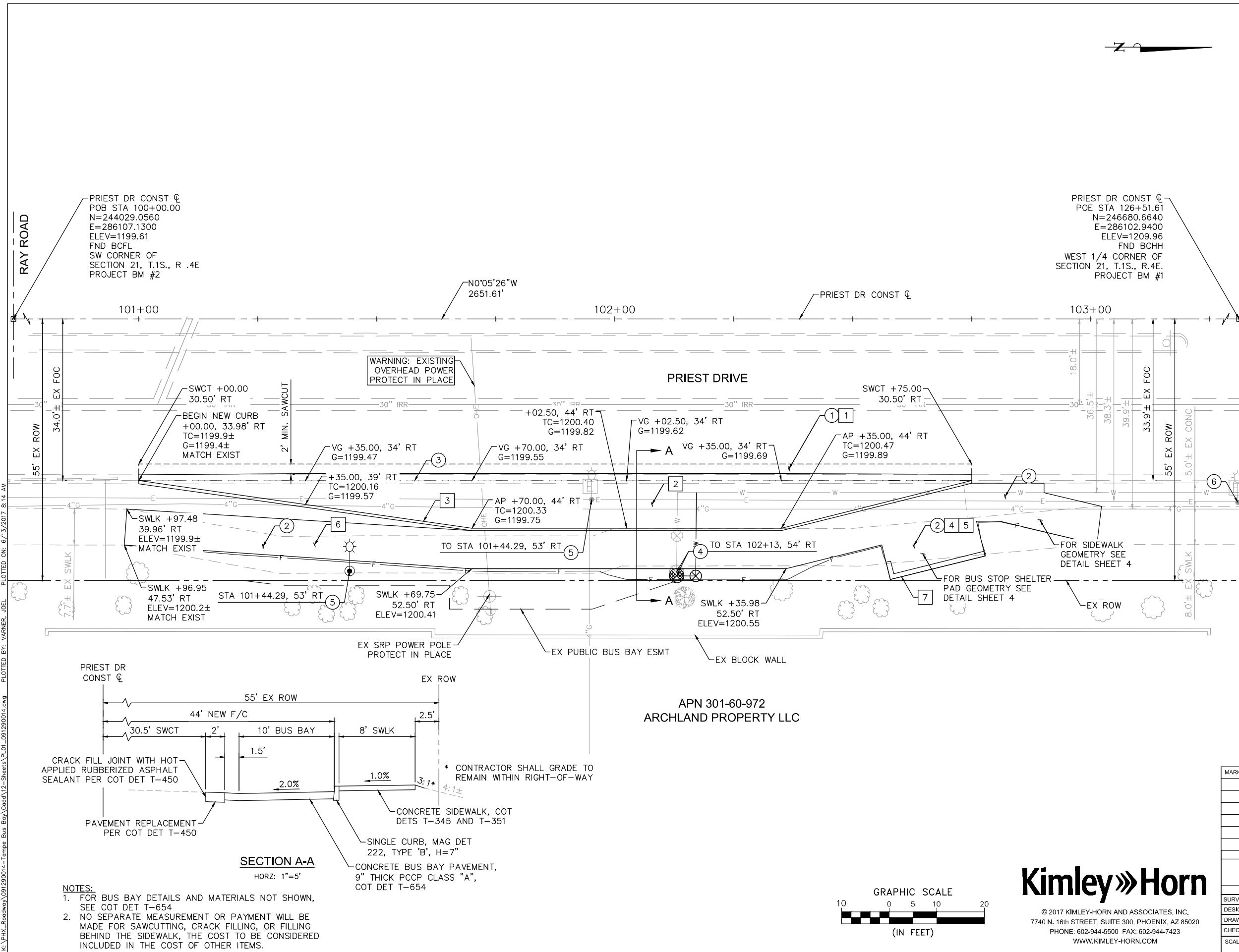
- STREET LIGHTS TO BE STREAMLINE STREET LIGHTS AND INSTALLED ON FOUNDATIONS PER CITY OF TEMPE STANDARD DETAIL T-651.
- ALL STREET LIGHTS TO HAVE INDIVIDUAL PULL BOX (J-BOX), (PROVIDED BY THE UTILITY COMPANY), INSTALLED WITHIN 2' TO 4' FROM THE BASE OF THE POLE AND PER CITY OF TEMPE STANDARD DETAIL T-650.
- ALL STREET LIGHTS TO BE 2' FROM BACK OF CURB WHERE RECESSED OR NO SIDEWALK EXISTS, OR 2' BACK OF WALK TO THE FACE OF POLE UNLESS OTHERWISE APPROVED BY CITY.
- ALL STREET LIGHT CONDUITS TO BE 2-1/2" PVC SCHEDULE 40.
- STREET LIGHTING IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL 3 MIL MINIMUM DOUBLE MATTE BLACK LINE MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.

Kimley»Horn

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PHONE: 602-944-5500 FAX: 602-944-7423  
WWW.KIMLEY-HORN.COM

			
MARK	DATE	DESCRIPTION	BY
DEPARTMENT OF PUBLIC WORKS			
CITY OF TEMPE			
DIVISION OF ENGINEERING			
P.O. BOX 5002, TEMPE, AZ 85280			
SURVEYED:	SIG	DESCRIPTION	DATE
DESIGNED:	JCV	PRIEST DRIVE & RAY ROAD	6/13/17
DRAWN:	JCV	BUS BAY IMPROVEMENTS	PROJECT NO.
CHECKED:	RPY	Tempe, Arizona	6008511
SCALE:	N/A	GENERAL NOTES SHEET	SHT 2 OF 4

PROJECT # 6008511 DS# R240862 EN# TITLE: PRIEST DRIVE AND RAY ROAD - BUS BAY IMPROVEMENTS



# CONSTRUCTION NOTES

## REMOVAL & RELOCATION NOTES

	DESCRIPTION	QTY	UNITS
①	SAWCUT AND REMOVE EXIST AC PAVEMENT	43	SY
②	SAWCUT AND REMOVE EXIST CONCRETE SIDEWALK	1,744	SF
③	SAWCUT AND REMOVE EXIST CONCRETE CURB AND GUTTER	175	LF
④	RELOCATE EXISTING FIRE HYDRANT AND VALVE, MAG DET 360	1	EA
⑤	RELOCATE EXISTING STREET LIGHT, BOX, AND CONDUIT	1	EA
⑥	REMOVE AND SALVAGE EXISTING BUS STOP SIGNS AND TRASH RECEPTACLES	1	EA

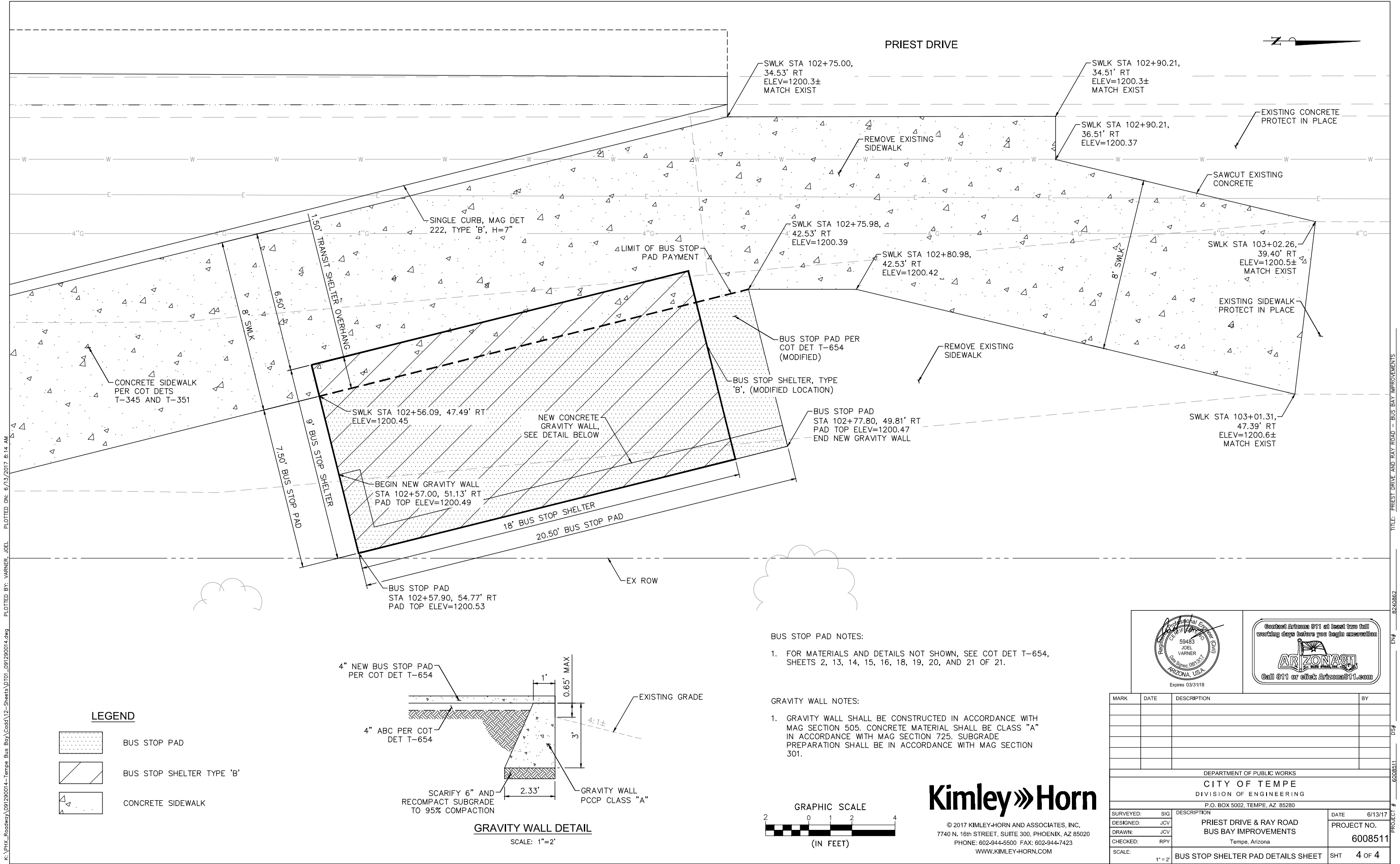
## CONSTRUCTION NOTES

	DESCRIPTION	QTY	UNITS
1	ASPHALT CONCRETE PAVEMENT REPLACEMENT PER COT DET T-450	40	SY
2	CONCRETE BUS BAY PAVEMENT, 9" THICK CLASS A, PER COT DET T-654	161	SY
3	CONCRETE SINGLE CURB, MAG DET 222, TYPE 'B', H=7"	177	LF
4	BUS STOP PAD, TYPE 'B', MODIFIED PER DETAIL SHEET 4	154	SF
5	INSTALL BUS STOP SHELTER AND ACCESSORIES, TYPE 'B', COS DET T-654	EACH	1
6	CONCRETE SIDEWALK, COT DETS T-345 AND T-351	1,646	SF
7	CONCRETE GRAVITY WALL, SEE DETAIL SHEET 4	24	LF

DATE	DESCRIPTION	BY

DEPARTMENT OF PUBLIC WORKS  
**CITY OF TEMPE**  
 DIVISION OF ENGINEERING  
 P.O. BOX 5002, TEMPE, AZ 85280

DESIGNED: JCV	PRIEST DRIVE & RAY ROAD BUS BAY IMPROVEMENTS Tempe, Arizona	DATE: 6/13/17
CHECKED: RPY		PROJECT NO. 6008511
SCALE: 1" = 10'		SHEET 3 OF 4

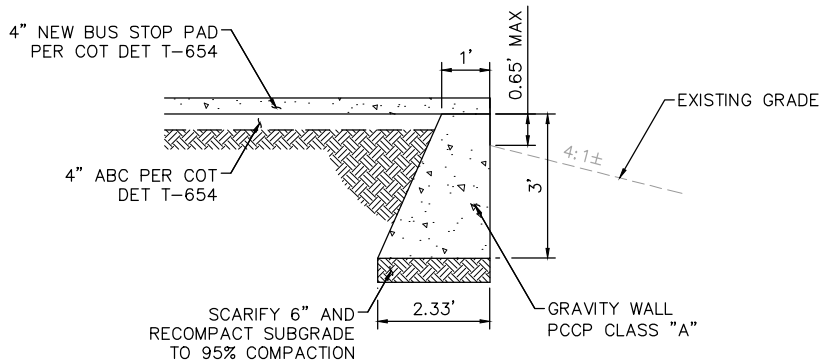


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EN# 6008511 PROJECT # 6008511 DS# 6008511 TITLE: PRIEST DRIVE AND RAY ROAD - BUS BAY IMPROVEMENTS

LEGEND

- BUS STOP PAD
- BUS STOP SHELTER TYPE 'B'
- CONCRETE SIDEWALK



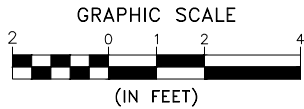
GRAVITY WALL DETAIL  
SCALE: 1"=2'

BUS STOP PAD NOTES:

- FOR MATERIALS AND DETAILS NOT SHOWN, SEE COT DET T-654, SHEETS 2, 13, 14, 15, 16, 18, 19, 20, AND 21 OF 21.

GRAVITY WALL NOTES:

- GRAVITY WALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH MAG SECTION 505. CONCRETE MATERIAL SHALL BE CLASS "A" IN ACCORDANCE WITH MAG SECTION 725. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH MAG SECTION 301.



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MARK	DATE	DESCRIPTION	BY
DEPARTMENT OF PUBLIC WORKS CITY OF TEMPE DIVISION OF ENGINEERING P.O. BOX 5002, TEMPE, AZ 85280			
SURVEYED: SIG	DESCRIPTION		DATE 6/13/17
DESIGNED: JCV	PRIEST DRIVE & RAY ROAD BUS BAY IMPROVEMENTS		PROJECT NO. 6008511
DRAWN: JCV	Tempe, Arizona		
CHECKED: RPY			
SCALE: 1"=2'	BUS STOP SHELTER PAD DETAILS SHEET		SHT 4 OF 4